

EAST 1/7/05

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	438	rod with backlash	US-PGPUB; USPAT	OR	ON	2004/08/28 12:40
S2	12	rod with backlash near4 reduc\$4	US-PGPUB; USPAT	OR	ON	2004/08/28 12:03
S3	5	("4577732" "5115889" "5540135" "5791230" "6152268").PN.	US-PGPUB; USPAT	OR	ON	2004/08/26 10:54
S4	3	de adj "3615985"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/08/26 10:55
S5	7	(US-6152268-\$ or US-5791230-\$ or US-5540135-\$ or US-5115889-\$ or US-4577732-\$).did. or (DE-3615985-\$).did. or (EP-418507-\$).did.	USPAT; EPO; DERWENT	OR	OFF	2004/08/26 10:56
S6	10	nexen.asn.	US-PGPUB; USPAT	OR	ON	2004/08/26 12:09
S7	36	nexen.asn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/08/26 12:09
S8	0	nexen.asn. and backlash	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/01/07 07:12
S9	19	rod with backlash near4 reduc\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/08/28 12:34
S10	10	188/67.ccls. and backlash	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/08/28 12:39
S11	5	("4577732" "5115889" "5540135" "5791230" "6152268").PN.	US-PGPUB; USPAT	OR	ON	2004/08/28 12:53
S12	0	((("4577732" "5115889" "5540135" "5791230" "6152268").PN.) and backlash	US-PGPUB; USPAT	OR	ON	2004/08/28 12:40
S13	62	end adj cap same backlash	US-PGPUB; USPAT	OR	ON	2004/08/28 12:46
S14	1	(rod or shaft) same backlash same friction adj collar	US-PGPUB; USPAT	OR	ON	2004/08/28 12:47
S15	510	(rod or shaft) with (brak\$4 or friction or clamp) same backlash	US-PGPUB; USPAT	OR	ON	2004/08/28 12:48
S16	236	(rod or shaft) with (brak\$4 or friction or clamp) with backlash	US-PGPUB; USPAT	OR	ON	2004/08/28 12:49

S17	149	("4780000" "4899628" "5682682" "5673689" "5915382" "5219099" "5547423" "5478091" "4399718" "4440038" "4583417" "5331731" "5341056" "5518037" "5996984" "6006619" "4322186" "4852871" "5012551" "5203219" "5461208" "5513570" "6041671" "4830121" "4537288" "4899804" "5009259" "5582496" "5980147" "6077262" "6474411" "4593572" "4422600" "4864880" "5293811" "5556049" "6260532" "6443107" "4813303" "5815984" "6073309" "5516335" "5992695" "6164700" "6436149" "5482415" "5971061" "4301905" "4386882" "4493245").pn. ("4577730" "4770522" "4974464" "5218763" "5222413" "5282412" "5318477" "5433361" "5490702" "5519182" "5520689" "5724858" "5799371" "5913401" "5944146" "6053288" "6067868" "6129526" "6150958" "6305665" "4282765" "5303606" "6240798" "4131031" "4249426" "4848132" "5027671" "5224254" "5419027" "5673777" "5865387" "5947252" "6112861" "4456306" "5219448" "4332397" "4343410" "4350592" "4630460" "4762475" "4850727" "5226895" "5226896" "5234227" "5295976" "5297581" "5301524" "5308340" "5323542" RE34873).pn. ("5406838" "5609522" "5649649" "5673991" "5709662" "5746733" "5778706" "5803939" "5819990" "5832971" "5843036" "5886456" "5887633" "5938642" "6001089" "6056003" "6112681" "6221046" "6221046" "6247681" "6256852" "6442821" "4273031" "4321840" "4413549" "4893577" "5531446" "5560332" "5649509" "5749141" "5775469" "5829885" "5946946" "5997119" "6026552" "4577732" "5277561" "4333459" "4378637" "4392305" "4413794" "4432246" "4595085" "4842026" "4882976" "4890538" "4970940" "5178480" "5226753" "5289755").pn.	US-PGPUB; USPAT	OR	ON	2004/08/28 12:49
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S18	51	(("4780000" "4899628" "5682682" "5673689" "5915382" "5219099" "5547423" "5478091" "4399718" "4440038" "4583417" "5331731" "5341056" "5518037" "5996984" "6006619" "4322186" "4852871" "5012551" "5203219" "5461208" "5513570" "6041671" "4830121" "4537288" "4899804" "5009259" "5582496" "5980147" "6077262" "6474411" "4593572" "4422600" "4864880" "5293811" "5556049" "6260532" "6443107" "4813303" "5815984" "6073309" "5516335" "5992695" "6164700" "6436149" "5482415" "5971061" "4301905" "4386882" "4493245").pn. ("4577730" "4770522" "4974464" "5218763" "5222413" "5282412" "5318477" "5433361" "5490702" "5519182" "5520689" "5724858" "5799371" "5913401" "5944146" "6053288" "6067868" "6129526" "6150958" "6305665" "4282765" "5303606" "6240798" "4131031" "4249426" "4848132" "5027671" "5224254" "5419027" "5673777" "5865387" "5947252" "6112861" "4456306" "5219448" "4332397" "4343410" "4350592" "4630460" "4762475" "4850727" "5226895" "5226896" "5234227" "5295976" "5297581" "5301524" "5308340" "5323542" RE34873).pn. ("5406838" "5609522" "5649649" "5673991" "5709662" "5746733" "5778706" "5803939" "5819990" "5832971" "5843036" "5886456" "5887633" "5938642" "6001089" "6056003" "6112681" "6221046" "6221046" "6247681" "6256852" "6442821" "4273031" "4321840" "4413549" "4893577" "5531446" "5560332" "5649509" "5749141" "5775469" "5829885" "5946946" "5997119" "6026552" "4577732" "5277561" "4333459" "4378637" "4392305" "4413794" "4432246" "4595085" "4842026" "4882976" "4890538" "4970940" "5178480" "5226753" "5289755").pn.) and backlash	US-PGPUB; USPAT	OR	ON	2004/08/28 12:49
S19	1	((("4577732" "5115889" "5540135" "57 91230" "6152268").PN.) and (clearance or undesired adj (movement or motion) or backlash)	US-PGPUB; USPAT	OR	ON	2004/08/28 12:54

S20	107	188/67.ccls. and (clearance or undesired adj (movement or motion) or backlash)	US-PGPUB; USPAT	OR	ON	2004/08/28 12:55
S21	7	188/67.ccls. and (clearance or undesired adj (movement or motion) or backlash) with (reduce or reduction or reducing or eliminate or elimination or eliminating or decreas\$ or diminsih\$4)	US-PGPUB; USPAT	OR	ON	2004/08/28 12:56
S22	591	(rod or shaft) with (clamp\$ or brak\$ or friction or lock\$) same (clearance or undesired adj (movement or motion) or backlash) with (reduce or reduction or reducing or eliminate or elimination or eliminating or decreas\$ or diminsih\$4)	US-PGPUB; USPAT	OR	ON	2004/08/28 13:01
S23	151	((rod or shaft) with (clamp\$ or brak\$ or friction or lock\$) same (clearance or undesired adj (movement or motion) or backlash) with (reduce or reduction or reducing or eliminate or elimination or eliminating or decreas\$ or diminsih\$4)) and ("188"/\$.ccls. or "91"/\$.ccls. or "92"/\$.ccls. or "192"/\$.ccls.)	US-PGPUB; USPAT	OR	ON	2004/08/28 13:00
S24	4	((rod or shaft) with (clamp\$ or brak\$ or friction or lock\$) same (clearance or undesired adj (movement or motion) or backlash) with (reduce or reduction or reducing or eliminate or elimination or eliminating or decreas\$ or diminsih\$4)) and (188/67,170,265.ccls. or 91/18-27.ccls. or 92/41-45.ccls.)	US-PGPUB; USPAT	OR	ON	2004/08/28 13:01
S25	446	(rod or shaft) with (clamp\$ or brak\$ or friction adj ring or friction adj collar or collar or lock\$) same (clearance or undesired adj (movement or motion) or backlash) with (reduce or reduction or reducing or eliminate or elimination or eliminating or decreas\$ or diminsih\$4)	US-PGPUB; USPAT	OR	ON	2004/08/28 13:02
S26	152	(rod or shaft) near3 (clamp\$ or brak\$ or friction adj ring or friction adj collar or lock\$) same (clearance or undesired adj (movement or motion) or backlash) with (reduce or reduction or reducing or eliminate or elimination or eliminating or decreas\$ or diminsih\$4)	US-PGPUB; USPAT	OR	ON	2004/08/28 13:34

S27	6	(rod or shaft) near3 (clamp\$ or brak\$ or friction adj ring or friction adj collar or lock\$) same (clearance or undesired adj (movement or motion) or backlash) with (reduce or reduction or reducing or eliminate or elimination or eliminating or decreas\$ or diminsih\$4) and (washer or shim) with (clearance or undesired adj (movement or motion) or backlash) with (reduce or reduction or reducing or eliminate or elimination or eliminating or decreas\$ or diminsih\$4)	US-PGPUB; USPAT	OR	ON	2004/08/28 13:38
S28	12	188/67,265.ccls. and (clearance or undesired adj (movement or motion) or backlash) with (reduce or reduction or reducing or eliminate or elimination or eliminating or decreas\$ or diminsih\$4)	US-PGPUB; USPAT	OR	ON	2004/08/28 13:44
S29	0	188/67,265.ccls. and (clearance or undesired adj (movement or motion) or backlash) with reducer	US-PGPUB; USPAT	OR	ON	2004/08/28 13:45
S30	138	188/67,265.ccls. and (clearance or undesired adj (movement or motion) or backlash)	US-PGPUB; USPAT	OR	ON	2004/08/28 13:45
S31	31	188/67,265.ccls. and (clearance or undesired adj (movement or motion) or backlash) with (disk or spring or washer)	US-PGPUB; USPAT	OR	ON	2004/08/28 13:48
S32	1	188/67,265.ccls. and zero with (clearance or undesired adj (movement or motion) or backlash)	US-PGPUB; USPAT	OR	ON	2004/08/28 13:49
S33	1796	188/67,265.ccls.	US-PGPUB; USPAT	OR	ON	2004/08/28 14:13
S34	17	188/67,265.ccls. and (collar or ring) with (balls! or spheres!)	US-PGPUB; USPAT	OR	ON	2004/08/28 13:56
S35	4	("4577732" "5115889" "5540135" "5791230").PN.	USPAT	OR	ON	2004/08/28 13:50
S36	1	"6152268".URPN.	USPAT	OR	ON	2004/08/28 13:54
S37	82	188/67,265.ccls. and (balls! or spheres!)	USOCR	OR	ON	2004/08/28 13:59
S38	8	188/170.ccls. and (balls! or spheres!)	USOCR	OR	ON	2004/08/28 14:00
S39	26	188/170.ccls. and (balls! or spheres!)	US-PGPUB; USPAT	OR	ON	2004/08/28 14:01
S40	460	(balls! or spheres!) with (ring or collar) with (rod or shaft) same spring	US-PGPUB; USPAT	OR	ON	2004/08/28 14:02
S41	141	(balls! or spheres!) with (ring or collar) with (rod or shaft) same (clamp or brak\$ or friction) with (rod or shaft)	US-PGPUB; USPAT	OR	ON	2004/08/28 14:05

S42	600	(balls! or spheres!) with (ring or collar) with (rod or shaft) same (clamp or brake or braking or friction) with (rod or shaft)	USOCR	OR	ON	2004/08/28 14:06
S43	48	((balls! or spheres!) with (ring or collar) with (rod or shaft) same (clamp or brake or braking or friction) with (rod or shaft)) and "188"/\$.ccls.	USOCR	OR	ON	2004/08/28 14:07
S44	12	((balls! or spheres!) with (ring or collar) with (rod or shaft) same (clamp or brake or braking or friction) with (rod or shaft)) and "92"/\$.ccls.	USOCR	OR	ON	2004/08/28 14:13
S45	8	((balls! or spheres!) with (ring or collar) with (rod or shaft) same (clamp or brake or braking or friction) with (rod or shaft)) and "91"/\$.ccls.	USOCR	OR	ON	2004/08/28 14:13
S46	59	188/67,265.ccls. and (balls! or spheres!)	US-PGPUB; USPAT	OR	ON	2004/08/28 14:14
S47	7	("4577732" "5115889" "5197573" "5540135" "5791230" "6152268" "6412606").PN.	US-PGPUB; USPAT	OR	ON	2004/10/14 07:46
S48	7	(US-6152268-\$ or US-5791230-\$ or US-5540135-\$ or US-5115889-\$ or US-4577732-\$ or US-5197573-\$ or US-6412606-\$).did.	USPAT	OR	OFF	2004/10/18 11:53
S49	1	(airplane or aircraft) same door and mannesmann.asn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/10/18 11:54
S50	29	backlash and mannesmann.asn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/10/18 12:08
S51	3	backlash same piston and mannesmann.asn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/10/18 11:57
S52	10	backlash and 188/67.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/10/18 12:08
S53	9242	(backlash or play) near5 (eliminate or eliminated or elimination)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/10/18 12:02
S54	1307	(backlash or play) near5 (eliminate or eliminated or elimination) with (rod or shaft)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/10/18 12:03

S55	1	(backlash or play) near5 (eliminate or eliminated or elimination) with (rod or shaft) with end adj cap	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/10/18 12:05
S56	0	(backlash or play) near5 (eliminate or eliminated or elimination) with (rod or shaft) with friction adj collar	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/10/18 12:05
S57	19	(backlash or play) near5 (eliminate or eliminated or elimination) with (rod or shaft) with collar	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/10/18 12:08
S58	0	freeplay and mannesmann.asn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/01/07 07:59
S59	0	freeplay and 188/67.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/10/18 12:08
S60	1	(freeplay) near5 (eliminate or eliminated or elimination) with (rod or shaft) with collar	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/10/18 12:11
S61	2403	(friction or brake or clamping) adj collar	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/10/18 12:14
S62	34	(friction or brake or clamping) adj collar same (freeplay or play or backlash)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/10/18 12:15
S63	2	(friction or brake or clamping) adj collar same collar with (balls! or spherical) with cage	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/10/18 12:15
S64	49	188/67.ccls. and (freeplay or play or backlash)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/10/18 12:51
S65	70	(freeplay or play or backlash) with collar same spring same (bearing or balls!) with collar	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/10/18 12:54
S66	36	(freeplay or play or backlash) with axial same spring same (bearing or balls!) with collar	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/10/18 12:54

S68	0	nexen.asn. and backlash	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/01/07 07:12
S69	6	nexen.asn. and weiss.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/01/07 07:13
S70	2	friction adj collar and 188/67.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/01/07 07:14
S71	280	friction adj collar	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/01/07 07:16
S72	0	("92"/\$.ccls. or "91"/\$.ccls.) and friction near3 (clamp or collar) same (balls! or spheres!)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/01/07 07:18
S73	25	("92"/\$.ccls. or "91"/\$.ccls.) and friction near3 (clamp or collar)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/01/07 07:18
S74	21	("2632425" "3208759" "3320861" "3429233" "3575087" "3615100" "3643765" "3941141" "4537113" "4577732" "4890541" "5137400" "5540135").PN. OR ("5791230").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/01/07 07:21
S75	15	("2632425" "3203513" "3359862" "3918346" "4981069" "5216942" "5553690" "5761984" "5791230" "5823300").PN. OR ("6178870").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/01/07 07:21
S76	5	("4577732" "5115889" "5540135" "5791230").PN. OR ("6152268").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/01/07 07:57
S77	15	("2620813" "2815736" "3019502" "3762512" "3951238" "4030579" "4577732" "4957313").PN. OR ("5115889").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/01/07 07:58
S78	0	freeplay and mannesman.asn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/01/07 07:59
S79	51	mannesman.asn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/01/07 07:59

S80	18531	mannesmann.asn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/01/07 07:59
S81	18575	S79 S80	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/01/07 07:59
S82	24	S81 and (rod or shaft) near4 (lock or locking or brake or braking or clamp or clamping) with (friction or collar)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/01/07 08:02
S83	8061	(rod or shaft) near4 (lock or locking or brake or braking or clamp or clamping) with (friction or collar)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/01/07 08:15
S84	309	(rod or shaft) near4 (lock or locking or brake or braking or clamp or clamping) with (friction or collar) same (play or backlash or clearance)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/01/07 08:12
S85	99	(rod or shaft) near4 (lock or locking or brake or braking or clamp or clamping) with (friction or collar or sleeve or bushing or bush) same (play or backlash or clearance) same (shim or washer or ring) with (play or backlash or clearance)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/01/07 08:06
S86	1076	(rod or shaft) near4 (lock or locking or brake or braking or clamp or clamping) with (friction or collar) same (play or backlash or clearance)	US-PGPUB; USPAT; USOCR	OR	ON	2005/01/07 08:14
S87	231	S86 and "188"/\$.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2005/01/07 08:09
S88	6	S86 and 188/67.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2005/01/07 08:11
S89	7	S86 and (91/41-45.ccls. or 92/18-28.ccls.)	US-PGPUB; USPAT; USOCR	OR	ON	2005/01/07 09:51
S90	1076	(rod or shaft) near4 (lock or locking or brake or braking or clamp or clamping) with (friction or collar) same (play or backlash or clearance)	US-PGPUB; USPAT; USOCR	OR	ON	2005/01/07 08:12
S91	17	(rod or shaft) near4 (lock or locking or brake or braking or clamp or clamping) with (friction adj (ring or collar)) same (play or backlash or clearance)	US-PGPUB; USPAT; USOCR	OR	ON	2005/01/07 08:14

S92	13452	(rod or shaft) near4 (lock or locking or brake or braking or clamp or clamping) with (friction or collar)	US-PGPUB; USPAT; USOCR	OR	ON	2005/01/07 09:50
S93	5445	91/41-45.ccls. or 92/18-28.ccls. or 188/67,265.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2005/01/07 08:16
S94	146	S92 and S93	US-PGPUB; USPAT; USOCR	OR	ON	2005/01/07 08:16
S95	9874	(rod or shaft) near4 (lock or locking or brake or braking or clamp or clamping) with (collar or ring) near4 (rod or shaft)	US-PGPUB; USPAT; USOCR	OR	ON	2005/01/07 08:24
S96	89	S95 and S93	US-PGPUB; USPAT; USOCR	OR	ON	2005/01/07 08:24
S97	16	("2632425" "2988058" "3470793" "3911141" "4537113" "4550811" "4856411" "4890541" "5137400" "5540135").PN. OR ("5761984").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/01/07 08:26
S98	19	("3320861" "3470793" "3575087" "3941141" "3995534" "4078778" "4185539" "4463481" "4699355" "5018434" "5302062" "5361680").PN. OR ("5540135").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/01/07 08:27
S99	3	((("4577732") or ("5540135") or ("6152268"))).PN.	US-PGPUB; USPAT	OR	OFF	2005/01/07 08:30
S100	1801	((188/67) or (188/265)).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/01/07 08:38
S101	987	92/24,27,28.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2005/01/07 08:39
S102	778	91/44,45.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2005/01/07 08:39
S103	18	("2348611" "3019502" "3251278").PN. OR ("4577732").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/01/07 09:47
S104	24	(rod or shaft) near4 (lock or locking or brake or braking or clamp or clamping) with (collar) and 188/67.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2005/01/07 09:52
S105	22	(rod or shaft) near4 (lock or locking or brake or braking or clamp or clamping) with (collar) and (91/41-45.ccls. or 92/18-28.ccls.)	US-PGPUB; USPAT; USOCR	OR	ON	2005/01/07 09:52
S106	103	(rod or shaft) near4 (lock or locking or brake or braking or clamp or clamping) with (collar or ring) and (91/41-45.ccls. or 92/18-28.ccls.)	US-PGPUB; USPAT; USOCR	OR	ON	2005/01/07 09:52

S10 7	68	(rod or shaft) near4 (lock or locking or brake or braking or clamp or clamping) with (collar or ring) and 188/67.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2005/01/07 09:52
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